CLAIMSWe claim:

- 1. A refrigerator comprising:
- incorporating (4, 5, 6) in its door (1) a door having a water dispenser within a compartment (2) present on thean outside of the door;
- door, characterised in that wherein the dispenser is connected to a water container(7) of given capacity carried by the door and provided to enable the contained water to be carbonated via a connection to a cylinder (11) which contains the containing a carbonating gas and is also located in the door-(1).
- 2. AThe refrigerator as claimed inof claim 1, wherein the cylinder(11) is disposed in a chamber(10) of the door (1), the chamber being accessible from the inside or from the outside of the door via a shutter.
- 3. AThe refrigerator as claimed inof claim 1 or claims 1 and 2, wherein the cylinder(11) and the container(7) are connected together via a solenoid valve (26).
- 4. AThe refrigerator as claimed inof claim 3, wherein the container(7) is provided with a water level sensor(34) which, when a given water level has been reached within the container, activates a meanssignal which indicates to the user that the water can now be carbonated by his operating the solenoid valve.

valve (26).

- 5. AThe refrigerator as claimed in one or more of the preceding claims, of claim 1, wherein the container (7) can be connected to the domestic water supply or to a possibly cooled source of water via a valve means (32A).controlled valve.
- 6. AThe refrigerator as claimed in one or more of the preceding claims, of claim 1, wherein the container(7) is provided with safety means (35) against a safety valve to prevent excess pressure.

- 7. AThe refrigerator as claimed in one or more of the preceding claims, wherein inof claim 3, wherein the connection between the cylinder(11) and container (7), further comprises, upstream of the solenoid valve-(26), a needle valve(24) is present cooperating with the cylinder-(11).
- 8. AThe refrigerator as claimed in one or more of the preceding claims, of claim 6, wherein the safety valve (35) operates on an electrical switch to interrupt, at a predetermined carbonation pressure, the connection between the cylinder (11) and the container (7) and the container.
- 9. AThe refrigerator as claimed inof claim 8, wherein saidthe switch activates an indicator advising the user that the water is carbonated and ready to be drawn off.
- 10. AThe refrigerator as claimed in one or more of the preceding claims, wherein means connected toof claim 1, wherein an indicator lamp areis provided to indicates ignify when the cylinder(11) is empty.